

SAAKOV, B. A.

GORDIYENKO, A.N.; KISELEVA, V.I.; SAAKOV, B.A.; LIT'YEN, A.V.

Electrophysiological phenomena in the nerve following the action
of antigens on skin receptors. Biul.eksp.biol. i med. 43 no.1
supplement:147-150 '57. (MLRA 10:3)

1. Iz kafedry patologicheskoy fiziologii (zav. - prof. A.N.Gordiyenko)
Rostovskogo meditsinskogo instituta. predstavlena deystvitel'nym
chlenom AMN SSSR V.N.Chernigovskim.

(NERVES, physiol.

eff. of antigens on electrical potentials of skin
receptors in dogs)

(ANTIGENS, eff.

on electrical potentials of skin receptors in dogs)

GORDIYENKO, A.N.; KISELEVA, V.I.; SAAKOV, B.A.; TSYNKALOVSKIY, R.B.;
AZHIPA, Ya.I.; LET'YEN, A.V.; YEGOROV, A.I.; BONDAREV, I.M.;
ZHIGALINA, L.I.

Reflex production of antibodies caused by antigen injection into an
isolated spleen [with summary in English]. Biul.eksp.biol. i med.
43 no.4:80-82 Ap '57. (MIRA 10:10)

1. Iz kafedry patofiziologii (zav. - prof. A.N.Gordiyenko) Rostov-
skogo meditsinskogo instituta. Predstavlena akademikom A.D.Speran-
skim.

(ANTIBODIES

form by reflex in system caused by antigen inject. into
isolated spleen in dogs)

(SPLEEN, physiol.

antibody form by reflex in system caused by antigen
inject. into isolated spleen in dogs)

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001446610010-8

Svetlov, B.A.

AZHIPA, Ya.I.; YEGOROV, A.I.; TSINGALOVSKIY, N.B.; SAAKOV, B.A.

Review of M.G.Durmish'ian's monograph on the "Mechanisms of the effect of afferent stimulations." Fiziol.zhur. 43 no.5:483-484
My '57. (MIRA 10:12)

(REFLEXES) (DURMISH'IAN, M.G.)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001446610010-8"

SAAKOV, B.A.

Changes in the cerebrocortical bioelectric potentials following ditilin injection [with summary in English]. Biul.eksp.biol. i med. 43 no.6:44-48 Je '57. (MIRA 10:10)

1. Iz kafedry patofiziologii (zav. - prof. A.N.Grodiyenko) Rostovskogo meditsinskogo instituta. Predstavlena akademikom A.D. Speranskim.

(MUSCLE RELAXANTS, effects,

ditiline, on cerebral cortex bio-electric potential (Rus))

(SUCCINIC ACID, related compounds,

dicholine ester ditiline, on cerebral cortex bio-electric potential (Rus))

(CEREBRAL CORTEX, effects,

succinic acid dicholine ester ditiline, on bio-electric potential (Rus))

GORDIYENKO, A.N., KISELEVA, V.I., SAAKOV, B.A., BONDAREV, I.M., ZHIGALINA, L.I.

Pharmacological analysis of the effect of antigens on receptors
of the carotid sinus during reflex antibody production [with summary
in English]. Biul.eksp. biol. i med. 44 no.11:72-75 N°57
(MIRA 11:11)

1. Iz kafedry patologicheskoy fiziologii (zav. - prof. A.N.
Gordiyenko) Rostovskogo gosudarstvennogo meditsinskogo instituta,
Rostov-na-Donu. Predstavlena akademikom A.D. Speranskim.

(ANTIGEN ANTIBODY, REACTION,

eff. of antigens on carotid sinus during reflex
antibody prod. (Rus))

(CAROTID SINUS,

eff. of antigens during reflex antibody prod. (Rus))

GORDIYENKO, A.N., KISELEVA, V.I., SAAKOV, B.A., AZHIPA, Ya.I., TSYNKALOVSKIY,
R.B., LET'YEN, A.V., YEGOROV, A.I., BONDAREV, I.M., ZHIGALINA, L.I.

Further studies on the bioelectric potentials of nerves following
intracutaneous injection of antigens [with summary in English].
Biul.eksp.biol. i med. 45 no.4:96-99 Ap '58 (MIRA 11:5)

1. Iz kafedry patofiziologii (zav. - prof. A.N. Gordiyenko)
Rostovskogo meditsinskogo instituta (dir. - prof. Ye.M. Gubarev).
Predstavlena akademikom A.D. Speranskim.

(NERVE ENDINGS, physiology

bioelectric potentials after intracutaneous inject.
of E.coli antigen (Rus))

(ESCHERICHIA COLI,
antigen intracutaneous inject. causing change in
bioelectric potentials of receptors (Rus))

GORDIYENKO, A.N., AZHIPA, Ya.I., SAAKOV, B.A., TSYNKALOVSKIY, R.B.

Determination of a dose of antigen capable of inducing antibody production following introduction into the carotid sinus. [with summary in English]. Biul.eksp.biol. i med. 46 no.7:49-52 Je'58 (MIRA 11:7)

1. Iz kafedry patologicheskoy fiziologii (zav. - prof. A.N. Gordiyenko) Rostovskogo meditsinskogo instituta. Predstavlena deystvitel'nym chlenom AMN SSSR. A.D. Speranskim.

(ANTIGEN ANTIBODY REACTION,

dose of antigen capable of induction of antibody prod.
in intracarotid sinus admin. (Rus))

(CAROTID SINUS).

dose of antigen capable of induction of antibody prod.
in intracarotid admin (Rus))

GORDIYENKO, A.N.; SAAKOV, B.A.; BONDAREV, I.M.

Sensory nerve impulses following antigenic stimulation of skin receptors in immunized animals. Biul. eksp. biol. i med. 47 no.3: 66-69 Mr '59. (MIRA 12:7)

1. Iz kafedry patofiziologii (zav. - prof. A.N. Gordiyenko) Rostovskogo meditsinskogo instituta. Predstavlena deyatvitel'nym chlenom AMN SSSR V. N. Chernigovskim.

(NERVOUS SYSTEM, physiol.

sensory nerve impulses after antigenic stimulation of skin receptors in immunized animals)

(ANTIGENS,

same)

(SKIN, physiol.

same)

GORDIYENKO, A.N.; KISALEVA, V.I.; TSYNKALOVSKIY, R.B.; SAAKOV, B.A.;
AZHIPA, Ya.I.; LET'YEN, A.V.; YEGOROV, A.I.; OCHELENKO, L.N.;
BONDAREV, I.M.; ZHIGALINA, L.I.

Electrophysiological analysis of the action of antigens on the
angioceptors. Biul.eksp. biol. i med. 49 no.2:90-94 F '60.
(MIRA 14:5)

1. Iz kafedry patofiziologii (zav. - prof. A.N.Gordiyenko)
Rostovskogo meditsinskogo instituta. Predstavlena akademikom
A.D.Speranskim.
(ANTIGENS AND ANTIBODIES) (CAROTID SINUS)
(ELECTROPHYSIOLOGY)

GORDIYENKO, A.N.; KISELEVA, V.I.; TSYNKALOVSKIY, R.B.; SAAKOV, B.A.;
AZHIPA, Ya.I.; LET'YEN, A.V.; YEGOROV, A.I.

Determination of the threshold of stimulation of the skin receptors
by dysentery and typhoid antigens. Biul. eksp. biol. i med. 49
no.3:76-80 Mr '60. (MIRA 14:5)

1. Iz kafedry patologicheskoy fiziologii (zav. - prof. A.N.Gordiyenko)
Rostovskogo-na-Donu meditsinskogo instituta. Predstavlena deystvitel'nym
chlenom AMN SSSR A.D.Speranskim.
(DYSENTERY) (TYPHOID FEVER) (SKIN—INNERVATION)

SAAKOV, Bogdan Artashesovich, doktor med. nauk; GUZMAN, F.A.,
red.; NARINSKAYA, A.L., tekhn. red.

[Mechanisms of the general complications in thermal
injuries] Mekhanizmy obshchikh oslozhnenii termicheskikh
travm. Kiev, Gosmedizdat USSR, 1963. 290 p.
(MIRA 17:3)

GORDIYENKO, A.N.; SAAKOV, B.A.; POLYAK, A.I. (Rostov-na-Donu)

Mechanism of antibody production by lymphoid tissue. Pat. fiziol.
i eksp. terap. 7 no.6:24-27 N.D '63. (MIRA 17:7)

1. Iz kafedry patofiziologii (zav. -- prof. A.N. Gordiyenko)
Rostovskogo meditsinskogo instituta.

SUVOROV, V.A.; SAAKOV, B.A.; KOLOTIYENKO, D.I.; ALENINA, L.G.

Functional characteristics of the course of burn shock in
radiation sickness. Eksper. khir. i anest. 8 no.4:10-12
Jl-Ag '63. (MIRA 17:5)

1. Kafedra patofiziologii (zaveduyushchiy-prof. A.N. Gordiyenko),
i kafedra rentgenologii i radiologii (zaveduyushchiy-prof. A.I.
Dombrovskiy) Rostovskogo meditsinskogo instituta.

L 15036-65 ENG(j)/ENG(r)/EWT(l)/FS(v)-3/ENG(v)/ENG(a)/ENG(o) Pb-4/Pe-5/Pa-4
ASD(a)-5/AMD/AFTC(b) DD/MLK
ACCESSION NR: AT4049172 8/0000/62/000/000/0284/0285

AUTHOR: Saakov, B. A.

TITLE: Electrophysiological changes in the nervous system during hypothermia.^v [Report presented at the 14-aya konferentsiya fiziologov yuga RSFSR (14th Conference of Southern Physiologists of the RSFSR), held at Krasnodar, 1962]

SOURCE: Konferentsiya fiziologov yuga RSFSR. 14th, Krasnodar, 1962. Materialy*. Krasnodar, 1962, 284-285

TOPIC TAGS: hypothermia, electrophysiology, neurophysiology, vagus nerve, carotid nerve, dog

ABSTRACT: While dogs which are intact and anesthetized with dilitine are being cooled in ice, electrophysiological changes first take place in the cutaneous nerves and in the cortex, followed by amplitude and frequency changes as reflected on a sinus- and vagus-nerve neurogram. An electrophysiological manifestation of the influence of chilled blood on the central nervous system is the depression of the bioelectric curve of the cerebral cortex. In addition, the return of chilled blood to the peripheral ending of the carotid artery lowers cardiovas-

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L 15036-65

ACCESSION NR: AT4049172 /

cular and respiratory-center excitability and arterial pressure and decreases the circulation rate. Hypothermia in anesthetized dogs produces deepened narcotic inhibition; at a body temperature of 31—33°C, however, there is a stage of intensified afferent stimulation evidenced first by impulses along the dermosensory nerves and then along vascular nerves and those of the internal organs, the vagus and carotid in particular. These impulses in turn reach the brain and produce an accelerated rhythm and an increased amplitude in the bioelectrical oscillations. A further decrease in body temperature depresses the bioelectrical activity of the nerves and of the cerebral cortex.

ASSOCIATION: Kafedra patologicheskoy fiziology Rostovskogo meditsinskogo instituta (Department of Pathological Physiology, Rostov Medical Institute)

SUBMITTED: 15May62

ENCL: 00

SUB CODE: LS

NO REF SOV: 000

OTHER: 000

ATD PRESS: 3143

Card 2/2

SAAKOV, E. O.

Saakov, E. O. "RC — generators of sinusoidal electromotive force," Sbornik trudov Leningr. elektrotekhn. in-ta svyazi im. Bonch--Bruyevicha, Issue 4, 1949, p. 30-40

SAAKOV, E. O.

Saakov, E. O. - "The selective RC system having variable tuning and band," Sbornik
trudov Leningr. elektrotekh. in-ta svyazi im. Bonch-Bruevicha, Issue 5, 1949, p.
44-53

SO: U-5240, 17, Dec. 53, (Letopis 'Zhurnal 'nykh Statey, No. 25, 1949).

SAAKOV, M.O..

Selecting operating conditions for phase discriminators. Radio-
tekhnika 8 no.4:39-50 Jl-Ag '53. (MIEA 11:6)

1. Deystvitel'nyy chlen Nauchno-tekhnicheskogo obshchestva radio-
tekhniki i svyazi im. Popova.
(Radio—Receivers and reception)

SAAKOV, Eduard Onikovich; SLEPYAN, L.B., professor, redaktor; ZABRODINA,
~~A.I.~~, tekhnicheskiy redaktor.

[Theory and calculation of selective RC systems; RC generators and
sinusoidal oscillation filters] Teoriia i raschet izbiratel'nykh
RC-sistem; RC-generatory i fil'try sinusoidal'nykh kolebanii.
Moskva, Gos.energ.izd-vo, 1954. 237 p. (MIRA 8:4)
(Oscillators, Electron-tube)

USSR/Electronics-Circuits

SAAKOV, E. O.

FD-2688

Card 1/1 Pub. 90-8/11

Author : Saakov, E. O., Active Member, VNORiE

Title : Nonlinear Distortions of Self-Excited Sinusoidal Oscillations
in the Presence of Inertial Nonlinearity (Author's Abstract)

Periodical : Radiotekhnika, 10, 69-74, Aug 1955

Abstract : In the case of a self-excited sine-wave oscillator with amplitude stabilization by a divider or a feedback circuit (in either case part of the resistance is nonlinear), when the period of the oscillations is short compared with the time constant of the inertial nonlinear resistance, the latter can be considered linear, and nonlinear distortions can be disregarded. But for lower frequencies the nonlinearity exerts an influence, and the sine wave becomes distorted. The author discusses his work on the theoretical and experimental evaluation of the problem.
Graphs, diagrams, table. Two USSR references.

Institution : All-Union Scientific and Technical Society of Radio Engineering
and Electric Communications imeni A. S. Popov (VNORiE)

Submitted : Article -- June 2, 1954; Author's abstract -- December 8, 1954

AID P - 4541

Subject : USSR/Electronics

Card 1/2 Pub. 90 - 4/9

Author : Saakov, E. O.

Title : Stabilization of the amplitude of self-excited oscillations with an inertial nonlinearity.

Periodical : Radiotekhnika, 11, 3, 23-33, Mr 1956

Abstract : The stability of the amplitude of self-excited oscillations close to the sinusoidal may be obtained with the introduction into the circuit of nonlinear elements having definite characteristics. The author investigates a system in which the nonlinear elements consist of resistances possessing thermal inertia. He presents relationships and data for the calculation of the stabilized amplitude in generators in the case that the period of self-excited oscillations is much shorter than the time constant of the nonlinear resistance. Five diagrams, 2 tables, 1 Soviet reference (1945).

GOS, M.E., kand.tekhn.nauk; KREYTSER, V.L., prof., doktor tekhn.nauk;
SAAKOV, E.O., dotsent, kand.tekhn.nauk.

[Radio amplifiers; course of study, supplementary material,
problems, and course outline] Usilitel'nye ustroistva;
programma, dopolnenie, kontrol'nye zadaniia i kursovoi proekt.
Fakul'tet: radiotekhnicheskii. Leningrad, 1958. 35 p. (MIRA 12:1)

1. Severo-zapadnyy zaochnyy politekhnicheskiy institut. Kafedra
konstruirovaniya radioapparatury. 2. Zaveduyushchiy kafedroy
konstruirovaniya radioapparatury, Severo-zapadnyy zaочnyy poli-
tekhnicheskiy institut (for Kreytser).
(Radio amplifiers)

SAAKOV, Eduard Onikovich, dotsent, kand. tekhn. nauk; VOL'PE, L., red.

[Amplifying devices; written lectures] Usilitel'nye ustroistva;
pis'mennye lektsii. Leningrad, Severo-zapadnyi zaochnyi poletekhn.
in-t. No.2. 1960. 175 p.
(Amplifiers (Electronics))

(MIRA 14:6)

SAAKOV, E.O., kand. tekhn. nauk, dotsent

Open microwave resonators. Izv. LEPI no.48:186-195 '63.
(MIRA 17:12)

L 60169-65 EWT(1)/EEC(b)-2/EWA(h) Pm-l/Pac-l/Feb/Pi-l/Pj-l

UR/3074/63/000/018/0186/0195

26
35

B+1

ACCESSION NR: AT5012825

AUTHOR: Saakov, E. O. (Candidate of technical sciences, Docent)

TITLE: Open cavities for microwave frequencies

SOURCE: Leningrad. Elektrotekhnicheskiy institut. Izvestiya, no. 48, 1963, 186-195

TOPIC TAGS: open cavity, microwave cavity, resonant frequency

ABSTRACT: The author shows that along with closed cavity resonators it is possible to use microwave communication structures consisting of conducting, dielectric, and ferromagnetic materials which are only partially encased by metallic surfaces. It is shown by a theoretical analysis that the conditions for resonance, namely the presence of standing electromagnetic waves in all three spatial coordinates, and smallness of the radiation going into the external space, can be satisfied by realizing a configuration that decelerates the electromagnetic waves in a segment of an open line. A structure is analyzed, consisting of an open metallic resonator in the form of a trough with projections on the bottom in the form of parallelepipeds. The analysis is carried out by approximately solving Maxwell's equations for free space above the projections and for the space in the gaps between the projections, and matching these solutions on the upper boundary of the projections for electric types of waves. Expressions are derived also for the Q of the cavity and for the

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ACCESSION NR: AT5012825

power. A model of such a resonator was tested at several wavelengths and the test results were in good agreement with the theoretical deductions. Detailed test results will be published later. The possibility of tuning the cavity frequency in a narrow range by introducing metallic and dielectric plates in the resonator field was also investigated, but no results are reported. Orig. art. has: 3 figures and 25 formulas.

ASSOCIATION: Leningradskiy elektrotekhnicheskiy institut (Leningrad Electrotechnical Institute)

SUBMITTED: 00May61

ENCL: 00

SUB CODE: EC

NR REF Sov: 000

OTHER: 000

dm
Card 2/2

FEDYAYEV, B.P., podpolkovnik meditsinskoy sluzhby; FEDOROV, K.V.,
podpolkovnik meditsinskoy sluzhby; PLASHKEVICH, A.S., podpolkovnik
meditsinskoy sluzhby; PLEKHOV, K.V., mayor meditsinskoy sluzhby;
SAAKOV, G.T., mayor meditsinskoy sluzhby

Disinfecting properties of "KhB" preparation. Voen.-med.zhur. no.9:
S '56. (MLRA 10:3)

(DISINFECTION AND DISINFECTANTS) (CHLORAMIDE)

Saakov, G. T.

SAAKOV, G.T., mayor meditsinskoy sluzhby

Control of rat mites on ships. Voen.-med.zhur. no.7:85 J1 '57.

(MIRA 11:1)

(RATS--EXTERMINATION)

(MITES AS CARRIERS OF DISEASE)

(SHIPS--SANITATION)

SAAKOV, G.T., podpolkovnik meditsinskoy sluzhby

Some comments on improving the operating qualities of the ADP and
DDA-53 shower and disinfection units. Voen.-med.zhur. no.8:77-79
Ag '59. (MILITARY HYGIENE, equipment and supplies)

PYATAKOV, A.; PLETENEV, P.; Chos, S.; SEDOV, B.; SAAKOV, M.; ORLOVSKIY,
Yu.; KARASINA, N.; MAMIOFA, I., inzh.

Discussing the draft of the "Basic Principles of the Labor Law of
the U.S.S.R. and the Union Republics". Sots.trud 4 no.11:12-32
(MIRA 13:4)
N '59.

1. Direktor Krasnopresnenskogo sakharorafinadnogo zavoda (for
Chos). 2. Predsedatel' zavkoma profsoyuza Krasnopresnenskogo
sakharorafinadnogo zavoda (for Sedov). 3. Zamestitel'
zaveduyushchego otdelom truda i zarabotnoy platy TSentral'nogo
komiteta profsoyuza rabochikh neftyanoy i khimicheskoy promy-
shlennosti (for Saakov). 4. Institut prava AN SSSR (for Orlovskiy).
5. Institut okhrany truda Vsesoyuznogo tsentral'nogo soveta
profsoyuzov (for Karasina). 6. Leningradskiy oblastnoy sovet
Vsesoyuznogo obshchestva izobratelyey i ratsionalizatorov (for
Mamiofa).

(Labor laws and legislation)

SAAKOV, M.

Aligning with progressive enterprises. Sots. trud 5 no.11:109-
115 N '60. (MIRA 14:1)

1. Chlen TSentral'nogo komiteta profsoyusa rabochikh neftyanoy
i khimicheskoy promyshlennosti.
(Al'met'evsk—Oil well drilling)
(Socialist competition)

SAAKOV, M., gorny inzh.

Water displaces oil. Izobr. i rats. no.8:3-4 Ag '62.
(MIRA 15:9)

(Oil field flooding) (Lenin prizes)

SAAKOV, M. A.

AID P - 536

Subject : USSR/Mining

Card 1/1 Pub. 78 - 2/29

Authors : Aliyev, M. A., Ioannesyan, R. A. and Shvarts, Ya. A.

Title : More rational production organization is required for oil well drilling

Periodical : Neft. Khoz., v. 32, #7, 6-9, J1 1954

Abstract : Discussion of the article "Some problems on the organization of work in oil well drilling" by M. A. Saakov, (Neft. Khoz., #11, 1953).

According to Saakov, the basic production unit covers the territory of the whole oil field, including assembly crew, repair brigades, material and pipe supplies and drillers' crew. Contrary to this opinion the authors consider that the office of the oil well drilling is a controlling center and other services such as geological prospecting, assembling, repair etc., are auxiliary services and must be controlled by the so-called "Chief controlling foreman".

Institution: None

Submitted : No date

SAAKOV, M.A.

Socialist competition of petroleum workers of Bashkiria and Azerbaijan. Neft.khoz. 32 no.12:84-86 D '54. (MIRA 8:2)
(Bashkiria--Oil well drilling)(Azerbaijan--Oil well drilling)

SAAKOV, M.

Instructive experience ("How we disseminate experience of innovators"
Kh.Safiullin. Reviewed by M.Saakov) Sov.profsoiuzy 3 no.9:86-89 S'55.
(MIRA 8:12)

1. Zaveduyushchiy otdelom TSentral'nogo Komiteta profsoyuza rabochikh
neftyanoy promyshlennosti
(Oil well drilling)

SAAKOV, Mikhail Artem'yevich; VELIYEV, Sattar Mamedovich; YURGENS, Yu.T.,
redaktor; NIKITERIKO, A.A.. vedushchiy redaktor; POLOSINA, A.S.,
tekhnicheskiy redaktor

[Competition between petroleum workers of two republics] Sorevnova-
nie neftianikov dvukh respublik. Moskva, Gos.sauchno-tekhn.izd-vo
neft. i gorno-toplivnoi lit-ry, 1957. 74 p. (MIRA 10:7)
(Petroleum industry)

SAAKOV, Mikhail Artemovich; SAVINA, Z.A., vedushchiy redaktor; TROFIMOV,
A.V., tekhnicheskij redaktor

[Construction and assembling of drilling rigs] Stroitel'stvo i
montazh burovых. Moskva, Gos. nauchno-tekhn. izd-vo neft. i
gorno-toplivnoi lit-ry, 1957. 303 p. [Microfilm] (MLRA 10:4)
(Boring machinery) (oil well drilling)

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001446610010-8

SAAKOV, M.A., gornyy inzh.

Drillers welcome the 40th anniversary of the Great October Socialist
Revolution. Neftianik 2 no.10:1-2 0 '57. (MIRA 10:12)
(Oil well drilling)

APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R001446610010-8"

SAAKOV, M.A.

Provide new equipment and excellent labor organization for the under-ground repair of wells. Neftianik 2 no.12:1-6 D '57. (MIRA 11:2)
(Oil wells--Repairing)

14(7)

AUTHOR: Saakov, M.

SOV/92-58-9-2/36

TITLE: At the All-Union Convention on Oil Well Maintenance and General Overhauling (Na Vsesoyuznom Soveshchanii po podzemnomu i kapital'nomu remontu skvazhin)

PERIODICAL: Netyanik, 1958, Nr 8, p 1-2 (USSR)

ABSTRACT: In June 1958 a convention was held under the auspices of the Trade Union Central Committee of Petroleum and Chemical Industry Workers to discuss problems connected with the maintenance and overhaul of oil wells. Over 350 engineers, technicians, mechanics, members of scientific research institutes, etc. participated in the convention and discussed numerous reports and problems pertaining to the maintenance and overhauling of wells. It was pointed out that in order to boost petroleum and gas production, the number of wells remaining idle should be reduced. It was also reported that the delivery of new submersible electric pumps and of their spare parts, so important for continuous oil well operations, is delayed by the factories manufacturing them. It was revealed that the oil well maintenance and overhauling do not keep pace with the rapidly developing petroleum production. Crews in charge of oil

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At the All-Union Convention (Cont.)

SOV/92-58-9-2/36

well maintenance are not properly organized, operations are not sufficiently mechanized, and modern tools are not supplied to oilfields in quantities needed. Due to these shortcomings the periods of continuous well operation are too short and reconditioning of wells has to be carried out too frequently. The convention issued a number of recommendations as to how this unsatisfactory state of affairs could be remedied. Obsolete tools should be replaced by tools of an improved design and construction. Special attention should be paid to devices used for fastening and unfastening pressure pump tubes, and to pneumatic wrenches. Designs of hoisting units developed by AZINMASH were approved at the convention which emphasized the importance of mechanization and automation of various operations. Serious criticism was expressed at the convention in regard to the pay scale applied to oil well maintenance personnel and their incentive rewards. Some recommendations were made in this matter. In view of the importance of resolutions and recommendations adopted at the convention the Central Committee of the Trade Union, the Gosplan of the USSR, and Governmental Agencies are urged to take measures to improve the present situation without delay.

Card 2/2

LAVRUSHKO, P.N., red.; PROK, I.Yu., red.; SAAKOV, M.A., red.;
PETROVA, Ye.A., vedushchiy red.; POLOGINA, A.S., tekhn.red.

[Mechanization and organization of underground repair of
wells; materials of the all-Union conference] Mekhanizatsiya
i organizatsiya podzemnogo remonta skvazhin; materialy vse-
soiuznogo soveshchaniia. Moskva, Gos.nauchno-tekhn.izd-vo
neft. i gorno-toplivnoi lit-ry, 1959. 199 p. (MIRA 13:2)

1. Soyuz rabochikh neftyanoy i khimicheskoy promyshlennosti.
Tsentral'nyy komitet. 2. Nachal'nik podotdela Otdela po sov-
narkhozam Povolzh'ya Gosplana RSFSR (for Lavrushko). 3. Zamesti-
tel' zaveduyushchego otdela truda i zarabotnoy platy Tsentral'nogo
komiteta profsoyuza rabotnikov nefte-khimicheskoy promyshlennosti
(for Saakov).

(Oil wells--Equipment and supplies)

14(5)

SOV/92-59-1-7/36

AUTHOR: Saakov, M.A., Mining Engineer

TITLE: 5517 Meters per Rig per Month as a Record to Mark the Twenty First Congress of the Communist Party of the Soviet Union (5517 metrov na stanok v mesets v chest' XXI s"yezda KPSS)

PERIODICAL: Neftyanik, 1959, Nr 1, pp 10-11 (USSR)

ABSTRACT: The author describes the remarkable achievements of the Tatburneft' drilling crew which is headed by master-driller A.Valeyev. This crew has drilled a well 1816 m deep in 237 hours (9.9 days), and attained the drilling speed rate of 5517 m per rig per month. In this way the commercial drilling speed of the crew working under V.Yermakov and the crew working under V.Gur'yanov was exceeded. The author indicates the structure of the well drilled by A.Valeyev, the diameter of surface casing pipes, production pipe strings, rock bits, and states that the operation was carried out by using the UZTM rig equipped with the US-4-5 winch, RD-2 reductor, two electrical motors of the MAD 128-8 type, and two U8-3 pumps. Water was used as drilling fluid at the well interval 0 - 1796 m, and the drilling mud at the interval below 1796 m. In Table 1 the author compares the drilling indices characterizing

Card 1/2

5517 Meters per Rig per Month (Cont.)

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the work of A.Valeyev's crew with those of the crews of Yermakov and V.Gur'yanov. Table 2 indicates meters drilled per bit, the weight on bit, and the mechanical drilling speed attained at various suites and horizons. Special attention was paid by Valeyev's crew to tool feeding. In Table 3 the author indicates the meters drilled each day and the number of trips per day. There are 3 tables.

Card 2/2

SAAKOV, M.A.

All-Union conference on underground and general overhauling of oil wells. Bezop.truda v prom. 3 no.1:38-39 Ja '59. (MIRA 12:3)

1. Ch'en TSentral'nogo Komiteta profsoyuza rabochikh neftyanoy i khimicheskoy promyshlennosti.
(Oil wells--Maintenance and repair)

SAAKOV, M.

In the Central Committee of the trade union of oil and chemical
industry workers. Sots.trud 4 no.5:143-145 My '59.
(NIRKA 12:8)

(Trade unions)

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CPSU. Neftianik, no.7, l-3 J1 '60. (MIRA 14:9)
(Oil fields--Production methods)
(Automatic control)

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GANINA, L.V., tekhn.red.

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SAAKOV, Mikhail Artem'yevich; GUREVICH, Ya.D., red.; LATUKHINA, Ye.I.,
vedushchiy red.; FEDOTOVA, I.G., tekhn. red.

[Wages in the enterprises of the petroleum and gas industries]
Oplata truda na predpriatiakh neftianoi i gazovoi promyshlennosti;
sti; osnovnye usloviia. Moskva, Gos. nauchno-tekhn. izd-vo neft.
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KRIVICH, V.S.; SAAKOV, M.A.

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39 no.1:64-67 1 Ja '61.

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tekhn. red.

[Work practice of formemost workers in speed boring and derrick
construction] Opyt peredovikov skorostnogo burenija i vyshko-
stroenija. Moskva, Gostoptekhizdat, 1962. 114 p.
(MIRA 15:6)

1. Profsoyuz rabochikh neftyanoy i khimicheskoy promyshlennosti.
(Oil well drilling)

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G.M., tekhn. red.

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novatorov skorostnogo burenija skvazhin. Moskva, Gostoptekh-
izdat, 1962. 121 p. (MIRA 15:10)
(Oil well drilling)

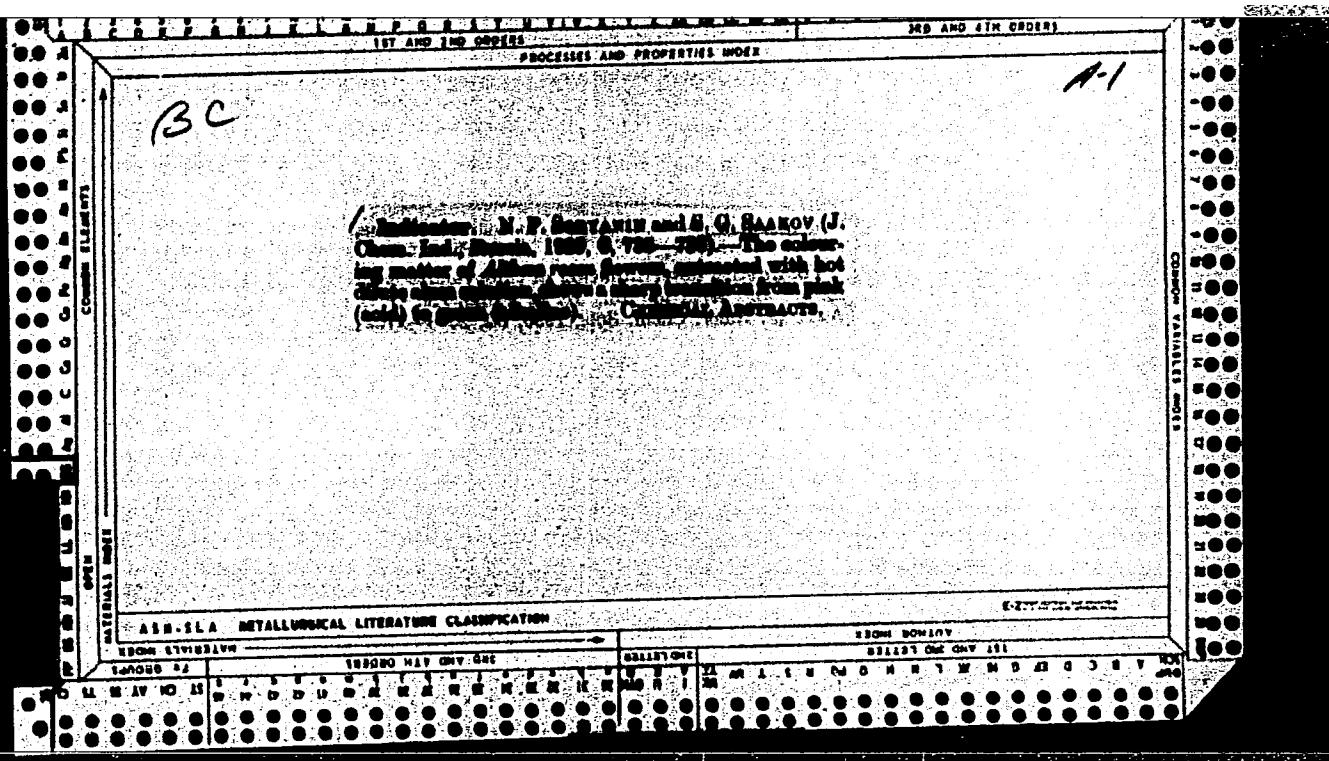
AMIYAN, V.A., red.; BORISOV, B.G., red.; IGREVSKIY, V.I., red.;
KREMS, N.K., red.; MATSKIN, L.A., red.; SAAKOV, M.A., red.;
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STAROSTINA, L.D., tekhn. red.

[Creative activity of inventors and efficiency promoters in
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1. Vsesoyuznoye obshchestvo izobretateley i ratsionalizatorov.
(Petroleum industry—Technological innovations)

ALI-ZADE, Z.I., kand. tekhn. nauk; RASHEVSKAYA, T.A., red.izd-va;
SAAKOV, N.Y., red.; MIRKISHIYEVA, S., tekhn. red.

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Azerneshi, 1961. 145 p. (MIRA 15:12)
(Slag) (Building materials)



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 4. Palms
 7. Results of introducing palms into the territory of the U. S. S. R..
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Talks given by participants in the meeting. Biul.Glav.bot.sada no.15:
85-182 '53. (MLRA 9:1)

1. Glavnyy botanicheskiy sad Akademii nauk SSSR (for Makarov, Pilipenko, Gerasimov, Il'inskaya, Veksler); 2. Akademiya komunal'nogo khozyaystva imeni K.D. Pamfilova for Vasil'yev); 3. Vsesoyuznaya sel'skokhozyaystvennaya vystavka (for Il'ina); 4. Botanicheskiy sad Botanicheskogo instituta imeni V.L. Komarova Akademii nauk SSSR (for Sokolov, Lozina-Lozinskaya, Saakov); 5. Botanicheskiy sad Leningradskogo

(continued on next card)

NAZAREVSKIY, S.L.---(continued) Card 2.

gosudarstvennogo ordena Lenina universiteta (for Zalesskiy); 6. Pol-yarno-Al'piyskiy botanicheskiy sad Kol'skogo filiala imeni S.M. Kirova Akademii nauk SSSR (for Avrorin); 7. Botanicheskiy sad pri Tomskom gosudarstvennom universitete (for Ivanov); 8. Botanicheskiy sad pri Tomskom gosudarstvennom universitete imeni V.V. Kuybysheva (for Prikladov); 9. TSentral'nyy Sibirskiy botanicheskiy sad Zapadno-Sibirskogo filiala Akademii nauk SSSR (for Salamatov, Sobolevskaya); 10. Botanicheskiy sad Irkutsko gosudarstvennogo universiteta imeni A.A. Zhdanova (for Malinovskiy); 11. Altayskaya plodovo-yagodnaya optynaya stantsiya (for Luchnik); 12. Bashkirskiy botanicheskiy sad (for Kravchenko); 13. Lesostepnaya selektsionnaya optytnaya stantsiya dekorativnykh kul'tur tresta Goszelenkhoz Ministerstva kommunal'nogo khozyaystva RSFSR (for Vekhov); 14. Bryanskij lesokhozyaystvennyy institut (for Grozdov); 15. Botanicheskiy sad pri Voronezhskom gosudarstvennom universitete (for Mashkin); 16. Orekhovo-Zuyevskiy pedagogicheskiy institut (for Bosse); 17. Botanicheskiy sad pri Rostovskom gosudarstvennom universitete imeni V.M. Molotova (for Matukhin); 18. Botanicheskiy sad Kuybyshevskogo gorodckogo otdela narodnogo obrazovaniya (for Zatvarnitskiy); 19. Zoobotanicheskiy sad pri Kazanskom universitete (for Grachev); 20. Gosudarstvennyy respublikanskiy proektnyy institut "Giprokommunstroy" (for Cherkasov); 21. Botanicheskiy sad Odesskogo gosudarstvennogo universiteta imeni I.I. Mechnikova (for Kirkopulo); 22. Botanicheskiy sad pri Dnepropetrovskom gosudarstvennom universitete (for Levitskaya); 23. Botanicheskiy sad
(continued on next card)

NAZAREVSKIY, S.L.---(continued) Card 3.

Akademii nauk USSR (for Grishko, Likhvar', Vil'chinsky); 24. Kiyevskiy sel'skokhozyaystvennyy institut (for Lypa); 25. Botanicheskiy sad Chernovitskogo gosudarstvennogo universiteta (for Orekhov); 26. Botanicheskiy sad pri L'vovskom gosudarstvennom universitete imeni Iv. Franko (for Shcherbina); 27. Botanicheskiy sad Khar'kovskogo gosudarstvennogo universiteta imeni A.M. Gor'kogo (for TSyankova); 28. Botanicheskiy sad Zhitomirskogo sel'skokhozyaystvennogo instituta (for Baranovskiy); 29. Botanicheskiy sad Akademii nauk Belorusskoy SSR (for Georgiyevskiy); 30. Institut biologii Akademii nauk Belorusskoy SSR (for Stepunin); 31. Botanicheskiy sad Akademii Litovskoy SSR (for Lukaytene); 32. Botanicheskiy sad Latviyskogo gosudarstvennogo universiteta (for Ozolin); 33. Kabardinskiy krayevedcheskiy botanicheskiy sad (for Kos); 34. Sukhumskiy botanicheskiy sad Akademii nauk Gruzinskoy SSR (for Vasili'yev, Rukhadze); 35. Batumskiy botanicheskiy sad Akademii nauk Gruzinskoy SSR (for Shanidze); 36. Tbilisskiy botanicheskiy sad Akademii nauk Gruzinskoy SSR (for Mandzhavidze); 37. Sochinskiy park Dendrariy (for Korkeshko); 38. Gosudarstvennyy Nikitskiy botanicheskiy sad imeni V.M. Molotova (for Sergeev, Voloshin); 39. Krymskiy filial Akademii nauk SSSR (for Rybin); 40. Botanicheskiy sad Moldavskogo filiala Akademii nauk SSSR (for Ivanova); 41. Botanicheskiy sad Botanicheskogo instituta Akademii nauk Tadzhikskoy SSR (for Ryabova); 42. Botanicheskiy sad Kirgizskogo filiala Akademii nauk SSSR (for Gareyev); 43. Botanicheskiy

(continued on next card)

NAZAREVSKIY, S.L.---(continued) Card 4.

sad Akademii nauk Usbekskoy SSR (for Rusanov, Bochartseva); 44.
Botanicheskiy sad Akademii nauk Turkmeneskoy SSR (for Blinovskiy);
45. Respublikanskiy sad Akademii nauk Kazakhskoy SSR (for Klyshev,
Mushegyan).

(Botanical gardens)

SAAKOV, S.G.; SOKOLOV, S.Ya., redaktor; LOZINA-LOZINSKAYA, A.S., redaktor.

[Palms and their cultivation in the U.S.S.R.] Pal'my i ikh kul'tura
v SSSR. Moskva, Izd-vo Akademii nauk SSSR, 1954. 319 p. (MIRA 7:7)
(Palms, Cultivated)

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U.S.S.R. floriculture and the outlook for its development.
Trudy Bot.inst.Ser.6 no.4:53-81 '55. (MIRA 9:2)
(Floriculture)

SAAKOV
SAAKOV, S.G.

The concept of variety in decorative flowers. Bot.zhur.40 no.4:
561-565 Jl-Ag'55. (MLRA 8:11)

1. Botanicheskiy institut imeni V.L.Komarova Akademii nauk SSSR,
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(Flowers) (Botany--Classification)

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Ornamental trees, shrubs, and herbaceous plants of Kaliningrad Province. Trudy Bot.inst.Ser.3 no.10:206-224 '56. (MIRA 9:6)
(Kalininograd Province--Plants, Ornamental)

SAAKOV, S.G.

"Systematic survey of the palms" [in German]. M.Burret. Reviewed by S.G. Saakov. Bot. zhur. 41 no.3:432 Mr '56. (MLRA 9:5)

I. Botanicheskiy institut imeni V.L. Komarova Akademii nauk SSSR, Leningrad.

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(Plants, Ornamental) (Botany--Classification)

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V.I.; ZAMYATNIN, B.N.; PIDOTTI, O.A.; PILIPENKO, F.S.; POLETIKO,
O.M., kand.biolog.nauk; RODIONENKO, G.I.; RUSANOV, F.N.; SAAKOV,
S.G.; SOKOLOV, S.Ya., prof., doktor biolog.nauk, red.; FEDOROV,
A.I.A.; SHIPCHINSKIY, N.V. [deceased]; SHUL'GINA, V.V.; SHUKHOBODSKIY,
B.A.; GOLOVNIN, M.I., red. izd-va; KRUGLIKOV, N.A., tekhn.red.

[Trees and shrubs of the U.S.S.R.; wild, cultivated, and promising
exotic trees and shrubs] Derev'ia i kustarniki SSSR; dikorastushchie,
kul'tiviruemye i perspektivnye dlja introduksii. Moskva. [Vol.4.
Angiosperms: Leguminosae - Punicaceae] Pokrytosemennye: Semeistva
bobovye-granatovye. 1958. 973 p. (MIRA 11:12)

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(Angiosperms) (Trees) (Shrubs)

SAAKOV, S.G.

~~Historical survey of garden-rose culture, Trudy Bot. inst.~~
Ser. 6:149-177 '58. (MIRA 11:10)
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A visit to the Bulgarian People's Republic. Bot. zhur. 43 no. 5:736-
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1. Botanicheskiy institut im. V.L.Komarova Akademii nauk SSSR,
Leningrad.
(Bulgaria--Botany, Economic--Research)

SAAKOV, S.G.

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Trudy Bot.inst.Ser.6 no.7;407-414 '59. (MIRA 13:4)

1. Botanicheskiy institut im. V.L.Komarova AN SSSR (BIN), Lenin-
grad.
(Floriculture)

GOLOVACH, A.G.; GRUBOV, V.I.; ZAMYATNIN, B.N.; LINCHEVSKIY, I.A.; PETYAYEV, S.I.; PIDOTTI, O.A.; PILIPENKO, F.S.; POLETIKO, O.M.; RODIONENKO, G.I.; SAAKOV, S.G.; SELIVANOVA-GOROKHOVA, Ye.A.; SOKOLOV, S.Ya., prof., doktor biolog.nauk; SHIPCHINSKIY, N.V. [deceased]; BELKINA, M.A., red.izd-va; HLEYKH, B.Yu., tekhn.red.

[Trees and shrubs of the U.S.S.R.; wild and cultivated species and plants considered for prospective introduction] Derev'ia i kustarniki SSSR; dikorastushchia, kul'tiviruemye i perspektivnye dlja introduksii. Moskva, Vol.5. [Angiosperms: myrtle and olive families] Pokrytosemennye: Semeistva mirtovye-meslinovye. 1960. 543 p.
(MIRA 13:12)

1. Akademiya nauk SSSR. Botanicheskiy institut.
(Myrtle) (Olive) (Plant introduction)

SAAKOV, S.G.

Cultivation of roses for essential oils in the U.S.S.R. Trudy Bot.
inst.Ser. 5 no.6:279-312 '60. (MIRA 13:6)
(Roses)

SAAKOV, S.G.

Roses grown for essential oils in the Bulgarian People's Republic.
Trudy Bot.inst.Ser. 5 no.6:313-346 '60. (MIRA 13:6)
(Bulgaria--Roses)

SAAKOV, S.G.

Floricultural research in the German Democratic Republic. Bot. zhur.
46 no. 5:740-743 My '61. (MIRA 14:7)

1. Botanicheskiy institut imeni V.L. Komarova AN SSSR, Leningrad.
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SAAKOV, S.G.

First International Exhibition of Horticulture in Erfurt. Bot.
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1. Botanicheskiy institut imeni V.L.Komarova AN SSSR, Leningrad.
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SAAKOV, S.G.

Silver wattle as an industrial and decorative plant. Bot. zhur. 48
no.10:1490-1494 O '63. (MIRA 17:1)

1. Botanicheskiy institut imeni Komarova AN SSSR, Leningrad.

SAAKOV, S.G.

Third International Congress on Essential Oils. Bot.zhur. 49 no.10:
1528-1529 0 '64. (MIRA 18:1)

1. Botanicheskiy institut imeni V.L.Komarova AN SSSR, Leningrad.

SAAKOV, S.G.

Flora and vegetation of Komodo Island in Indonesia. Bot. zhur.
50 no.8:1185-1198 Ag '65. (MIRA 18:10)

1. Botanicheskiy institut imeni V.L. Komarova AN SSSR, Leningrad.

SAMKOV, V. I.

"Investigation of Systems of Self-Synchronization and Suppression of the Field of Hydrogenerators of Low and Medium Ratings." Cand Tech Sci, Georgian Polytechnic Inst, 22 Nov 54. (ZV, 5 Nov 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (11)

SO: Sum. No. 521, 2 Jun 55

SAAKOV V.I.

621.316.94 - 621 113.32
635. Field suppression circuits for generators of small
or medium capacity. I. S. KURDIANT AND V. I.
SAAKOV, Elekt. Stanisl, 1934, No. 4, 23-6, 1934

Possible arrangements are discussed of field suppression on internal faults of alternators as used for rural water-power stations. The main features of the new proposals are the use of a single-pole breaker opening the main field circuit and of metal rectifiers shunting this breaker and the field so as to permit the flow of alternating current in the field during starting with coarse synchronization. Generators with compounding arrangement, i.e. current transformers feeding an extra-component through metal rectifiers into the exciter field need another, smaller 1-ph. breaker disconnecting one pole of the exciter field from the armour winding. The features of different arrangements are discussed and oscillograms shown of field suppression and of effects of coarse synchronization on the field circuit.

F. BUSEMANN

35

SAAKOV, V.I.

621.316.729 : 621.313.322-82

621. Automatic self-synchronization of hydro-generators with steep starting characteristics. I. S.

KURDIANI, V. I. SAAKOV AND N. A. CHERNYAEV.

Elekt. Stansii i Sistemy, No. 4. In Russian.

Automatic synchronization of small and medium hydro-generators as used in rural supply systems is usually done by relays measuring the frequency difference between machine and system. But successful switching on the system depends also on the rate of change of speed of the machine. Relay circuits are described, preventing the generator from being switched on if the rate of frequency change exceed the permissible value of about 0.5 c/s per second, and their co-ordination with the governor system is outlined for the case of starting valve positions adjusted to no-load steady-state speed above or below the rated value.

P. BUSSEMAN

SAAKOV, V.I.

System employing dry rectifiers for suppressing the field of
compounded generators of rural hydroelectric power stations.

Biul. nauch.-tekhn. inform. po elek. sel'khoz. no.1:41 '56.

(Electric generators)
(Electric current rectifiers)

(MLRA 10:9)

SAAKOV, V.I., kandidat tekhnicheskikh nauk.

Measuring capacity and power in three-phase, four-wire networks.
Energetik 5 no.3:31-33 Mr. '57.
(Electric networks)

(MIRA 10:3)

CHKHIKVADZE, Yu.I., kand.tekhn.nauk (Tbilisi); SAAKOV, V.I., kand.tekhn.nauk
(Tbilisi)

Small synchronous motor excited by a semiconductor rectifier.
Elektrichestvo no.2:45-48 F '61. (MIRA 14:3)
(Electric motors, Synchronous)

SAAKOV, V.I., kand.tekhn.nauk; BARBARKADZE, M.M., inzh.

Concerning the determination of the cross section of the rods of
the magnetic circuit of an electric transformer with high-voltage
regulation for use in electric locomotives. Vest. elektroprom.
32 no.5:26-30 My '61. (MIRA 15:5)

(Electric transformers) (Magnetic circuits)
(Electric locomotives)

ADONTS, Grant Tigranovich; ATABEKOV, G.I., prof., retsenzent;
MEL'NIKOV, N.A., prof., retsenzent; SAAKOV, V.I.,
kand. tekhn. nauk otv. red.

[Multiterminal networks; theory and methods for their
design] Mnogopoliusnik; teoriia i metody rascheta.
Erevan, Izd-vo AN Armianskoi SSR, 1965. 466 p.
(MIRA 18:7)

SAAKOV, V.S.

Comparative characteristics of gasometric and radiometric determination of photosynthesis. Vest.LGU 14 no.21:42-50 '59.
(MIRA 12:10)

(Photosynthesis) (Carbon--Isotopes)

SAAKOV, V.S.

Some methodological problems concerning manometric measurement of
photosynthesis in leaves of terrestrial plants. Vest.LGU 15 no.21:
33-41 '60. (MIRA 14:4)

(Photosynthesis) (Manometry)

SAPOZHNIKOV, D.I.; ALKHAZOV, D.G.; EYDEL'MAN, Z.M.; BAZHANOVA, N.V.; LEMBERG, I.Kh.; MASLOVA, T.G.; GIRSHIN, A.B.; POPOVA, I.A.; SAAKOV, V.S.; POPOVA, O.F.; SHIRYAYEVA, G.A.

Incorporation of O^{18} from heavy oxygen water into violaxanthin due to the action of light on plants. Bot. zhur. 46 no. 5:673-676 My '61.
(MIRA 14:7)

1. Botanicheskiy institut imeni V.L. Komarova AN SSSR, Leningrad.
(Oxygen—Isotopes) (Violaxanthin)

SEMIKHATOVA, O.A.; SAAKOV, V.S.; GORBACHEVA, G.I.

Studying the after effect of temperature on the intensity and
dynamics of photosynthesis in *Polygonum sachalinense*. Trudy
Bot. inst. Ser. 4 no.15:25-42 '62. (MIRA 15:7)
(Photosynthesis) (Plants, Effect of temperature on)

SAPOZHNIKOV, D. I.; SAAKOV, V. S.

Use of violaxanthin-C¹⁴ as a characteristic of the light
reaction of xanthophyll transformation. Dokl. AN SSSR 147
no. 6:1487-1488 D '62. (MIRA 16:1)

1. Botanicheskiy institut im. V. L. Komarova AN SSSR. Pred-
stavлено академиком A. I. Oparinym.

(Violaxanthin) (Xanthophylls)
(Plants, Effect of light on)

SUKOV, V.S.

Evaluation of the effectiveness of the method of separation of anthophylls on plants with the aid of the C-14 isotope. hicfizika 8 no.1:123 (8) (MFA 17:8)

Botanicheskiy institut imeni V. A. Komarova AN SSSR, Leningrad.

SAAKOV, V.S.

Methods of obtaining pure xanthophylls. Bot. zhur. 48 no.4:554-557
Ap '63. (MIRA 16:5)

1. Botanicheskiy institut imeni V.L.Komarova AN SSSR, Leningrad.
(Xanthophylls)

SAAKOV, V.S.

Mechanism of the photochemical reaction of xanthophylls in
the suspension of chloroplasts. Bot. zhur. 48 no.6:878-881
(MIRA 17:1)
Je '63.

1. Botanicheskiy institut imeni V.L. Komarova AN SSSR, Lenin-
grad.

SAAKOV, V.S.

Mechanism of the change in violaxanthin content during the light reaction of chloroplasts. Dokl. AN SSSR 148 no.6:1412-1414 F '63. (MIRA 16:3)

1. Botanicheskiy institut im. V.L.Komarova AN SSSR. Predstavлено akademikom A.I.Oparinym.
(Violaxanthin) (Chromatophores) (Carbon isotopes)

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AUTHORS: Sapožnikov, D.I.; Al'mazov, E.G.; Eydel'man, Z.M.;
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TOPIC: Participation of xanthophylls in oxygen transport during
photosynthesis

PUBLISHER: AN SSSR. Doklady*, v. 154, no. 4, 1964, 974-977

TOPIC TAGS: xanthophyll, oxygen transport, photosynthesis, labeled
green algae, chlorella species, O sup 18 determination,
lutein, carotene, chlorophyll, chromatography, F sup 18

ABSTRACT: Labeled oxygen was used in a suspension of unicellular
green algae species chlorella pyrenoidosa to study transformation
reactions of violaxanthin and lutein. In addition, other pigment
fractions were investigated under the influence of light. The
 $H_2^{18}O$ suspension, enriched with O^{18} (68%), was exposed for 30 min.

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utes to the light source. Chromatographic determinations of 4 pigment zones, carotene with colorless lipids, chlorophylls (masking neoxanthin), lutein and violaxanthin were made. These were then eluted and concentrated, followed by transformation of O^{18} into the radioactive isotope F^{18} , using cyclotron and 4 Mev proton irradiation of a film of each pigment fraction on a tantalum disk. The (figured) activities of the various pigments were calculated per 100 μ g of substance and a 46 microcoulomb charge carried by the protons during 4 hours following irradiation, excluding the cosmic-ray background. Standard error was at most 5%. All fractions with the exception of lutein were strongly labeled following exposure to the light, and the latter indicated the absence of O participation in the OH groups at the lutein rings. It was concluded that an exchange occurred between the epoxy oxygen of violaxanthin and the O^{18} in the water, thus confirming participation of the xanthophylls in oxygen transport during photosynthesis. O^{18} also enters the lipid fractions of carotene and the composition of the substances accompanying the chlorophylls in the chromatogram. Orig. art. has:

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3 figures.

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SHKOL'NIK, M.Ya.; SAAKOV, V.S.

Effect of trace elements on the rate of photosynthesis and
the translocation of assimilates. Fiziol. rast. 11 no.5:
783-792 S-O '64. (MIRA 17:10)

1. Komarov Botanical Institute, U.S.S.R. Academy of Sciences,
Leningrad.

ACCESSION NR. AP4034552

S/0020/64/155/005/1212/1215

AUTHOR: Saakov, V. S.

TITLE: The role of carotenoids in the mechanism of oxygen transfer
in photosynthesis

SOURCE: AN SSSR. Doklady*, v. 155, no. 5, 1964, 1212-1215

TOPIC TAGS: photosynthesis, carotenoids, oxygen transfer, violaxanthin,
neoxanthin, epoxy group, Chlorella suspension

ABSTRACT: Inasmuch as the oxygen exchange between carotenoids, such as violaxanthin, neoxanthin, lutein, and carotene in photosynthesis has been established, the author traced the exchange of the epoxy-group oxygen in neoxanthin under illumination. The study was carried out with a Chlorella suspension in water containing O^{18} ; a similar suspension in ordinary water was used for comparison. Neoxanthin was extracted chromatographically from both suspensions after various periods of exposure to light. The presence of isotope O^{18} in the

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